MD iMap Technical Committee Meeting Minutes

Place: Department of the Environment (MDE): Terra Room (Baltimore, MD)
Date: 01/07/2014
Time: 1:00PM   –   3:00 PM
Attendees: Melissa Appler (MDP), Mark Barnes (Morgan State University), Michael Bentivegna (CGIS), Andrew Bernish (MDP), Ashley Buzzeo (CGIS), Jim Cannistra (MDP), Kaushik Dutta (MDTA), Bill Fearrington (DHR), Julia Fischer (DoIT), Priyanka Goja (University of Maryland), Barney Krucoff (DoIT), Erin Lesh (SHA), Lisa Lowe (DoIT), Russell Provost (DoIT/ESRGC), Doug Reedy (Frederick County) , Matt Sokol (DoIT), Marshall Stevenson (SHA/WBCM) and Barb Willig (CEM)

AGENDA:

- Introductions   1:00 – 1:10

- MD ELA Statistics Update   1:10 – 1:20

- Statewide Impervious Surface Data – *MDP*   1:20 – 1:35

- Data & Resources Subcommittee Updates   1:35 – 2:30
  - Addressing Initiative – *Russell Provost*
  - Geocoder Update
  - DFIRM Data Integration Update – *Barney Krucoff*
  - Western Shore Imagery – *Kenny Miller*
  - 2013 Eastern Shore Imagery Status Update – *Jim Cannistra*
  - Centerlines Update – *Erin Lesh*

- Application Subcommittee Updates   2:30 – 2:35

- Outreach Subcommittee Updates   2:35 – 2:50
  - Coordination of TUgis Presentations
  - LiDAR Webpage Update – *ESRGC*

- Additional Business   2:50 – 3:00

NEW ACTION ITEMS:

Description:	Date	Follow Up

	Assigned:	By:
Message out SHA Centerline tab new to Portal	Submitted: 12/17/13	GIO Office
Message out LiDAR Service Availability, once confirmed as finalized	Submitted: 12/17/13	GIO Office
Survey Pictometry to determine who has contracted with them from Maryland	Submitted: 12/17/13	GIO Office

ON-GOING ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
REST Endpoint Service Descriptions • Any changes that need to be made to these descriptions or legends should be submitted to Ashley Buzzeo	Submitted: 12/20/11	MD iMap Service Data Owners

APPLICATION SUBCOMMITTEE ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
How to consume Socrata services in MD iMap • Update on page 11 • Python script being coded and tested on some transportation and MDA data which has been uploaded to Socrata, more details to follow • Test the potential for automated updates using available .xml feeds or other resources out of Socrata and report back to the group	Updated: 5/7/13 2/5/13 Submitted: 1/15/13	Kristen Ahearn, Kaushik Dutta & Jason Keppler
Application Submission Procedures • Update on page 12 • Update detailed procedures for application creation and update • Resend Application Submission Procedures draft to Technical Committee (Co-chairs)	Updated: 5/7/13 Submitted: 6/21/11	Technical Committee

DATA & RESOURCES SUBCOMMITTEE ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
MD iMap KML Services Issues • MDP will look into this and get back to the group	Submitted: 11/5/13	Jim Cannistra
Feedback/Requests concerning MD iMap • Updates on page 12 • Statewide tax map service being developed by MDP – will be made available on MD iMap in future • PFA map service now includes a field "State Eligible" w/ Yes or No • Look to obtain most recent statewide DEM from Salisbury and discuss effort/timeline for generating hillshade and getting posted • Still updating • Add Plat # to parcel	Updated: 5/7/13 9/4/12 3/23/12 10/4/11 Submitted: 6/7/11	Jim Cannistra

- Maybe add address - Add PFA in/out: resistance to this update - Check for hillshade, which can be added as map service, @ MDP - Add Hillshade Service: Inquire at DNR if they have a hillshade available – to check - Add Map/Parcel ID Look-Up: Follow up with requestor (Jason Zhao – MDE) to clarify request		
Metadata Services - Forward electronic list to group - Updated list to be provided by Friday, 1/7/2011 - Updated list to be provided at 1/4/2011 meeting - Remaining "offenders" actively being pursued - Resend email to "offenders" to complete metadata - Email resent and follow-up by Kenny Miller to occur - MDP has provided metadata for all their services on MD iMap - Follow-up concerning how to obtain the missing metadata for services currently being hosted on MD iMap - Email sent to Kenny - Agency leads from Tech. Comm. to make progress - Direct contact of data owners - A listing of services for which metadata is needed was provided. It was discussed that some metadata may not be available from the data producers. This is especially true for parcel data. Metadata at the service level will be written by MDP for parcel data to go along with the MD iMap refresh process	Updated: 1/18/11 1/4/11 12/21/10 10/5/10 8/3/10 7/12/10 6/22/10 5/18/10 Submitted: 4/20/10	Data & Resources Subcommittee Co-chairs

OUTREACH SUBCOMMITTEE ACTION ITEMS:

Description:	Date Assigned:	Follow Up By:
Twitter/Communication Plan List of every CIO for inclusion on email alerts	Submitted: 11/15/11	GIO
- Recruit participants - Obtain feedback concerning how to improve upon current outreach strategies - Email potential new members directly	Updated: 5/18/10 4/20/10 Submitted: 3/16/10	Outreach Subcommittee
Proactive Marketing of MD iMap	Submitted: 9/21/10	Outreach Subcommittee

COMPLETED ACTION ITEMS:

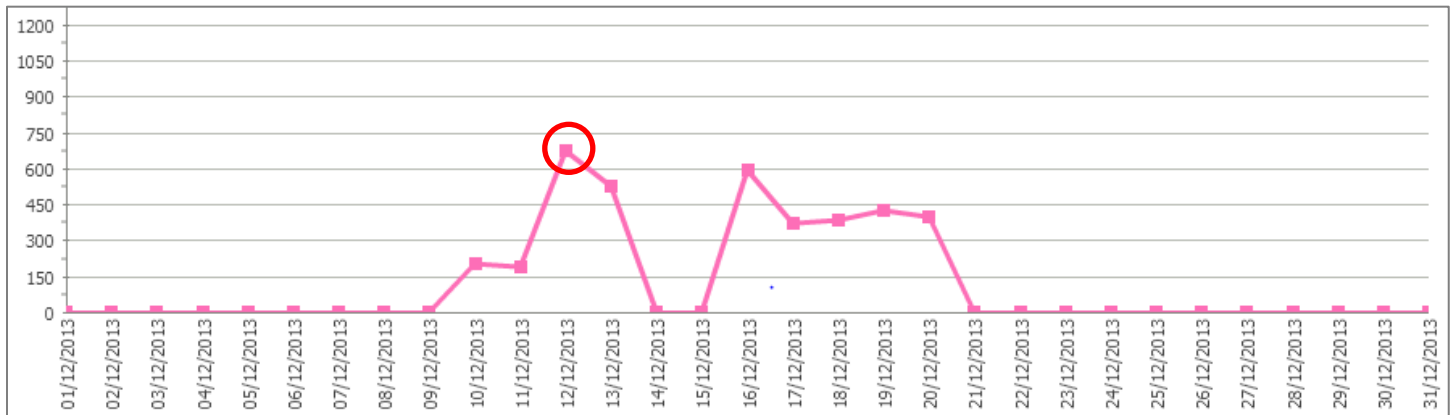| Description:	Date Assigned:	Follow Up By:

Introductions

Round-the-room
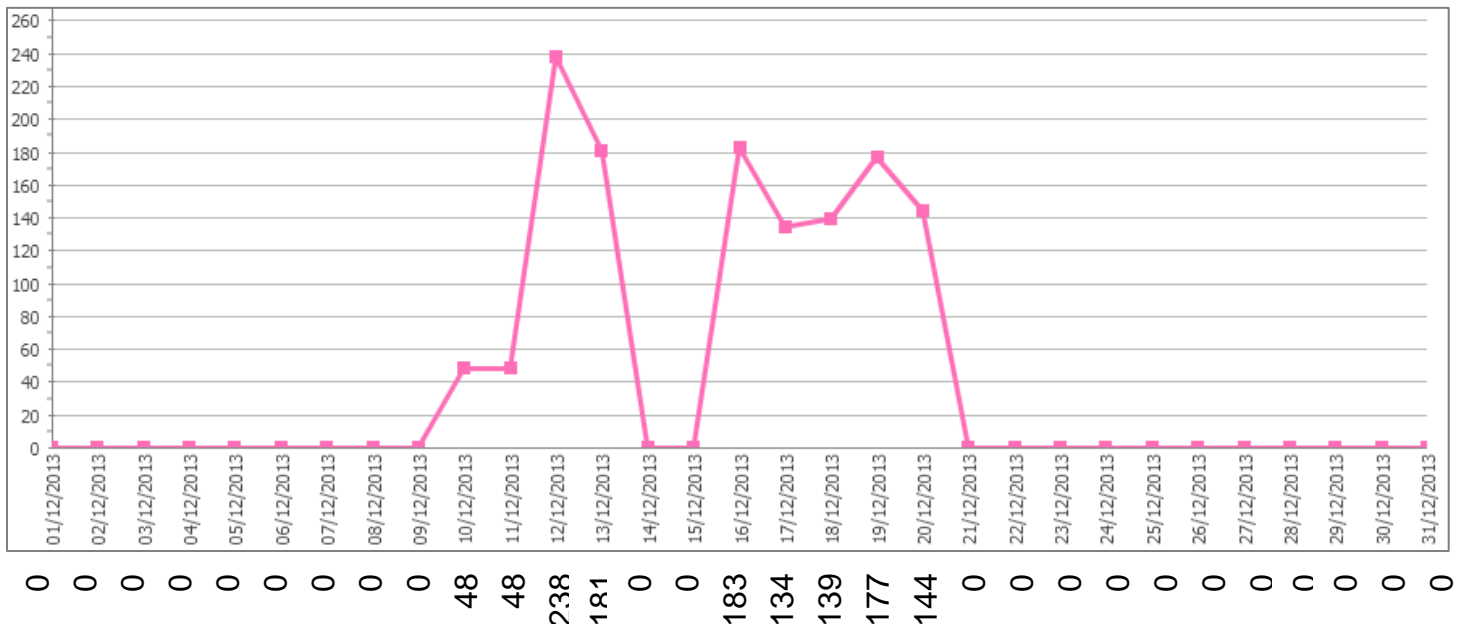
MD ELA Statistics Update

Desktop License Statistics

- Total Users in December: 395
- Percent Change from November 2013: -15.4%
- Total Number of System Users: 923
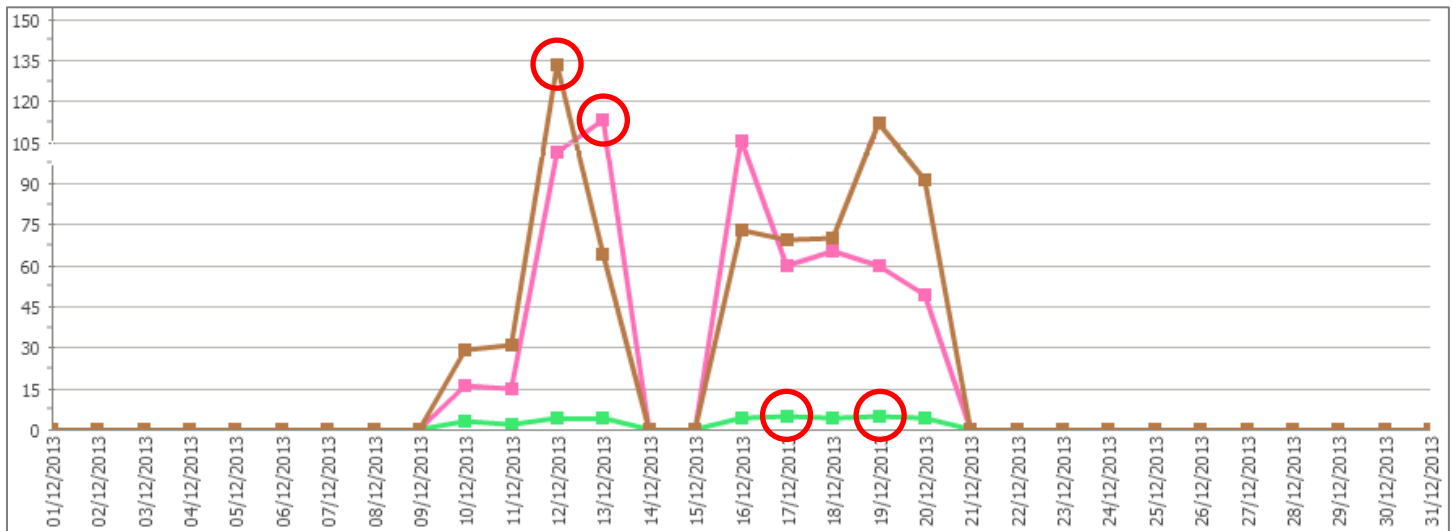- Percent Change from November 2013: +1.2%

License usage peaked on December 12, 2013 with 676 concurrent licenses in use

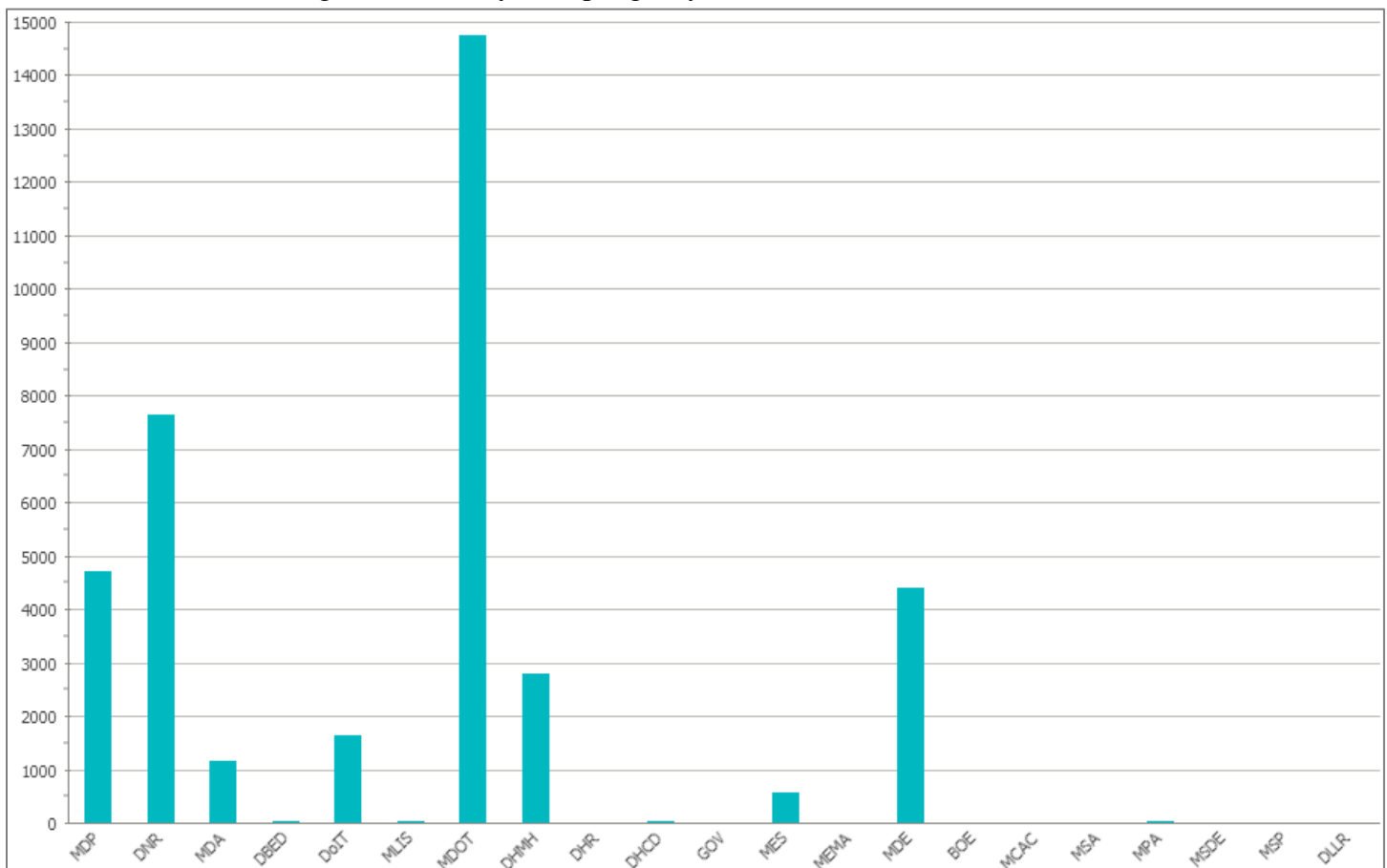Aggregated license usage of ArcView, ArcEditor and ArcInfo

Breakdown of license usage for ArcView, ArcEditor and ArcInfo

■ Max # of concurrent licenses for ArcView – December 12, 2013 with 133
■ Max # of concurrent licenses for ArcEditor – December 17 & 19, 2013 with 5
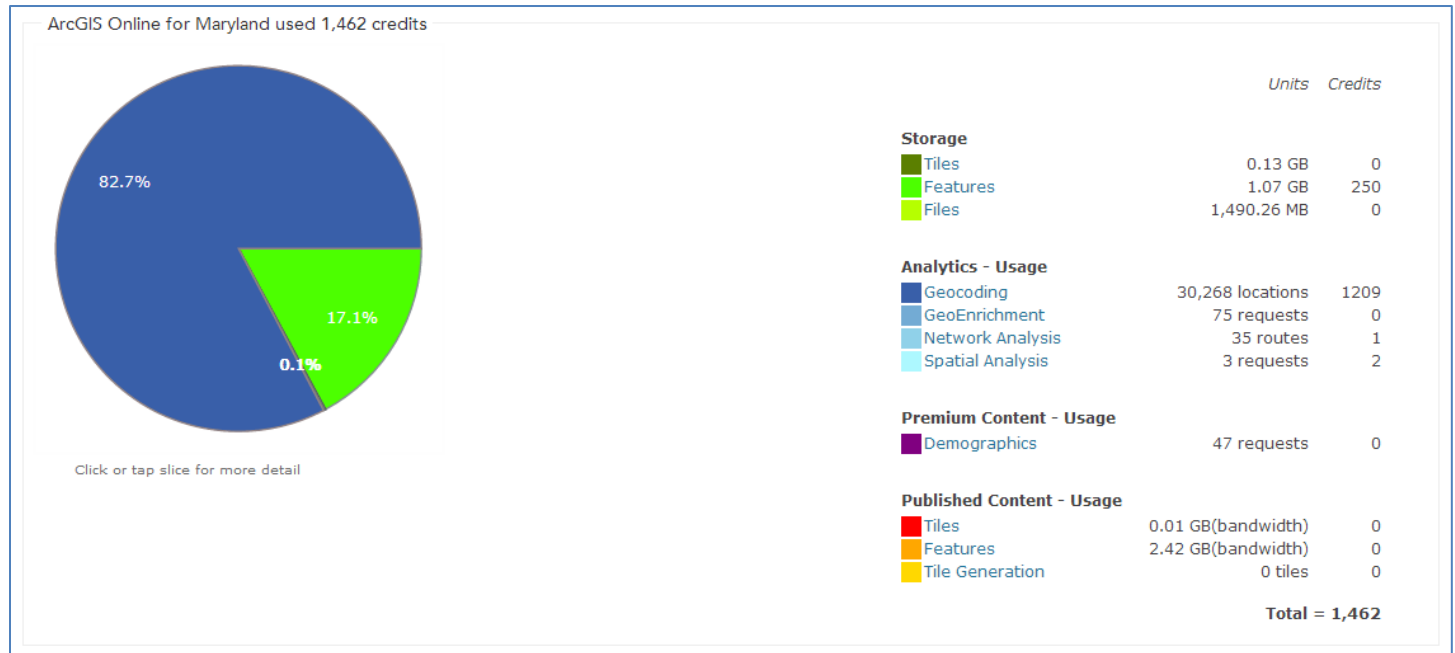■ Max # of concurrent licenses for ArcInfo – December 13, 2013 with 113

Breakdown of license usage (in hours) by Group/Agency

ArcGIS Online Statistics
- Total Number of Members as of December: .05
- Percent Change from November 2013: +3%
- Total Credits Used in December: 1,462
- Percent Change from November 2013: -49.31%
- Total Credits Remaining: 31,505

Credit Usage for December 2013

- Geocoding has been updated in AGOL to use MD geocoder rather than Esri geocoder
- No credits used when the MD geocoder is used, default, but Esri geocoder is still available

Question: Can we determine who is using the credits in the AGOL?
- Not at this time
- Good number were from DoIT/Russell Provost with testing some responsiveness
- Met with Esri about our ability to audit the credits
  - Several things in the development pipeline about this item
  - Registered frustration with not being able to track these numbers

Question: Were there issues with the first of the month, because it was a flat line?
- Check if there were issues with the license or the servers being tracked

Question: Do what to mention that there are a lot of users who have all of the extensions turned on, so we might want to investigate and get some of the users to turn off what they do not really need?
- This would be a micro-managing of the licenses, so we can consider if the time is worth pursuing or not

- Other = other agency, Unidentified = need to send to CGIS to get intern to identify who these individuals are

- Need to check to see if 10.2 allows to switch between levels without administrative privileges
- Matt Sokol has been working on this application and has a few more things to finish before deploying
- Get some information/dates from Matt Sokol about when he hopes to be done with this application
- Prompts users to think about which level they should use versus also allowing to switch between levels

Statewide Impervious Surface Data – *MDP*
(Presentation Available)
- 25 raster files, 6" imagery for 1985 – 2010
- Talk about what MDP has done with imagery and discuss what MD iMap can do with the data

- Two sets of analysis were completed
- Imagery was not coded as impervious or not, there was a percent included of imperviousness
- Analyze change of imperviousness over the years of data available
    o Abnormality 1: Jump in impervious surface and considered it might be because of leaf on/leaf off imagery used, working to get confirmation from USGS
    o Abnormality 2: Area around Blackwater Creek, asking USGS why this area has discrepancies
- Landsat data with 30m grid cell size, all consist throughout the years

Question: Did USGS stop after 2010? And why?
- Data was received as soon as USGS was done with it, so that was the latest they had available, do not know if they will do 2011 and 2012, but guess is they will

- Compare impervious percent with residential land uses from the land use/land cover layer maintained by MDP
- Compared 2000 imagery with MDP LULC 2002 data and 2008 imagery with MDP LULC 2010 data
- Overall levels of imperviousness went up slightly for all residential coverage area, pretty consistent across each class
- Compared very low and low residential density LULC with impervious areas from Landsat data and there were some of these LULC areas which did not register any imperviousness based on USGS available data
    o Example where specific housing structures are not being picked up by the USGS available data, medium and high density being shown in high teens percentage of imperviousness
- Thought it might have to do with leaf on/leaf off imagery used
- MDP uses known LULC and information about individual parcels throughout all of these areas
- Ocean City shown to have higher imperviousness in the high density residential areas than Baltimore City high density residential areas
    o Not a lot of high density residential areas in Worcester County, so Ocean City which is high density for sure is the average, so the county wide value is going to be high based on this available average

Question: Interest is assessing this data to push this information to MD iMap?
- Perhaps share the bookends years of raster files and feature polygons

- Wanted the data to see and tie in the LULC and similar analysis being conducted at MDP
- There are isolated project areas which would allow for storm water billing and other applications

- Going to keep the data at MDP and do we want to put some or all on MD iMap or make it available on project-by-project basis
- MDTA would like to share this PowerPoint internally to see if this data can be used in other means
- Make data available on MD iMap, but withhold 2010 until more thought has been put into the considerations/discrepancies
- Smart, Green and Growing Atlas talks about how to explain the problem and the images from this presentation would have been useful
- Make the map service turn off below a certain scale, good for general study, but specific sites it is not accurate
- Consider giving the presentation also at BayStat and get another community of possible users there

Action Item: Work with Matt Sokol and Julia Fischer to get the data layers in the right place, short-term and long-term

Question: Has MDP thought to use this over the years to determine how planning areas have been impacted/changed?
- Hinted with the LULC environmental staff to see if the coefficients used need to be tweaked
- Potential for use of this data is great and will continue to be incorporated into other initiatives
- Finished the core analysis and looking how to deploy

Addressing Initiative – *Russell Provost*
- Up to 2.2 million points collected and processed
  - Harford and Baltimore Counties were the last to be added
- All in the geocoder

- Meeting with BMC on Thursday to finalize the ETL tools that will take their member's data and push to state standard as replication to be completed monthly

- Finalize the ETL tool with CGIS for the remainder of the State, release in January, at which time will ask for another round of updates from the counties
- Some have shown interest in participating in the process and working to bring more counties on board in this process

- On the radar, put the address service on MD iMap, the address points themselves, 4 or 5 counties have license agreements and web services are a gray area, prohibited from distributing the data, but is a web service distributing?
- Would it be beneficial to have the data on MD iMap and if yes, what is a reasonable approach to the counties?
- MDP would really like to have the service on MD iMap, approval to add the parcel data, approach might be to tell them what we are going to do and let them know if this is a problem, map service, not downloadable
- Already the approach taken with the data extraction website, make available and respond to issues, no issues to date
- Might follow up specifically with those counties that have the signed license agreements

- Gone to some of the Eastern Shore meetings lately and working to find solutions to maintain the address data, going to look into some of these solutions and the time/resources it will take to deploy

Question: What is the difference between what they had been maintaining and the new resources?
- Paper trail in the past, want to train address coordinators to add the points as they come in, rather than the longer process that currently exists
- Perhaps a web interface that is used by the person assigning the address and adding it to the system at the same time, similar product deployed by New York State, GeoComm solution
- Free access to the online address maintenance system for all the counties, there are some free solutions and Russell Provost will research and share with the counties

Geocoder Update
- Big news is now available as the default geocoder in AGOL
- Working with CGIS to improve performance
- Tweaking some performance parameters of individual locations in the coming days and running tests
- Some lingering issues, works well in AGOL, however, some issues still in Desktop
- Doing research on these potential reasons and have it more efficient soon

DFIRM Data Integration Update – *Barney Krucoff*
- Has not changed much since the last meeting
- MDE has their new system mostly up and running
- Release of the DFIRM data is imminent

- DoIT in contract with MES and MDE to help do some of the maintenance on the floodplain data
- Not relevant to the initial publication, just some updates while there is a gap in MDE funding
- No firm date at this time

Western Shore Imagery – *Kenny Miller*
- Contract was awarded to URS and Axis Geospatial 2014 to 2017
- First phase will be to fly western shore in 2014
- Contract start date was yesterday

- Reached out to a few state agencies and some counties about buy-up options
  - SHA, Port Authority, MDE and others

- Option for a few levels of oblique buy up, Pictometry on the team, pricing available
  - Needs to be moved very quickly, coordination potential between multiple agencies, SDAT, SHA, MDTA, more coordination effort which SDAT was not comfortable leading
  - Only got interest from SDAT at MD iMap Executive Committee meeting and now circling back around with some potential new interest
  - MDOT met with SDAT some months ago and there is definite interest, want to leverage what counties are doing
  - SDAT, MDOT, SHA, MDTA, MTA, interest in these agencies, where should the process start, where is the funding?

- Stopped past efforts because there was limited interest and we should restart the discussion to move forward, rekindle these efforts
- A lot of counties are buying the imagery and can coordinate to have a whole product for all parties involved
- Might be easier now because of the contract vehicle in place
- Most counties will not be using the buy-up option because they have their own contracts in place which are better priced
- Perhaps coordinate with Pictometry themselves and State could purchase what counties are not being purchased directly to get entire coverage of the State
- Can coordinate pushing the data to the State and all would be available, some counties might be interested if they know that there are some State contributors to help the effort
- Ballpark prices for this scenario have been obtained in the past

2013 Eastern Shore Imagery Status Update – *Jim Cannistra*
- Complete
- All imagery loaded into MD iMap and pushed to production
- Anything that is 6" imagery is from the new imagery
- Almost everything has been delivered to the counties
- MDP to receive a drive in the near future to get a copy of the source data and distribute to other agencies, all deliverables, have available for distribution to other State agencies
- Close out meeting scheduled for later on this week with contractors
- Update color infrared map service for MD iMap

- Could not remember the process to get data to CGIS for the Image Service
- CGIS created the Image Service from what was provided to them in the past, received .jpgs and that should work, similar results of the image service from .tiffs or .jpgs
- Image service needs to be recreated, 6" map service, 6" image service, composite service, 6" color infrared
- Secondary services will need to be created, do not have the timeframe now
- Took longer than usual to update the map service, should a push be made, timeframe? – 6" image service, composite service, 6" color infrared
  - Being worked on now, just finished the 6" map service decided to hold off on the others until the first one was completed
- Is there a sense of urgency for these other layers, will need to prioritize with all requests coming in, a month is a reasonable expectation for turn around

Centerline Updates – *Erin Lesh*
- Still scheduling outreach to all counties in Maryland
- Emails have gone to every county and another email will go out next week with follow up calls

- Still trying to procure Esri Roads and Highways
- Working to determine how Esri Roads and Highways will integrate with what is already being done/collected at SHA
- Conflation and touch points, in particular, are being considered, will have to work with each organization/county, which shows the change in geometry/ownership as move from one county to another

- January 21, 2014 – Next Steering Committee meeting

- Marshall Stevenson and Erin Lesh submitted to present at Transportation Conference in May and were accepted

Application Subcommittee Updates
- MES has been doing a lot of work on the template and want to talk with them about running this committee as part of the template work effort, not in their current scope
- Discussed about AGOL guidelines development and considering this committee to look into drafting these guidelines

- Tips and tricks and understanding about the credit usage
- Looking for someone to look into this documentation, CGIS might be better suited for this work then MES
- Have to determine how much of this work will or will not be on the clock (CGIS vs. Committee)

Coordination of TUgis Presentations
- Panel: transition to the new system (Matt Sokol, Lisa Lowe), centerlines, LiDAR, addressing, website, imagery updates
  o MDP can talk about how they use MD iMap data applications for work
  o Erin Lesh and Marshall Stevenson
  o Doug Reedy

- Plenary expected to be something similar to last year with Statewide updates and also the MSGIC Chair will do the same, hope these will prompt attendees to go to some of the other presentations

Question: Delaware has been calling in to join, talk to do something joint with surrounding states?
- Miriam Pomilio suggested talk about centerlines for Delmarva conference
- Great conference to focus on the joint cooperation, implied in the name

LiDAR Webpage Update – *ESRGC*
- County and statewide services are complete
- Countywide seamless raster mosaics are complete
- ESRGC met with DoIT team on 12/19/13 to review the status of LiDAR FAQ page and LiDAR viewer
- Exciting about getting it launched, data is available from ESRGC
- Interface through MD iMap Portal is still a work in progress, but will make the data more approachable for non-GIS or beginning users
- Twitter? – not doing any messaging until we are ready to launch

Additional Business
- Letters going out in the near future about the move from 10.0 to 10.2

Moving to Web Mercator
- Should this be reconsidered? Are we abandoning any user groups?
- Image services will remain as-is and can be re-projected as needed

- Map services are still re-projected for local needs
- Would the CAD user base still have access, need to be WMS-enabled
- Need to print at scale levels different than the web standard and cached standards
- Can get some of the CAD users to test the use of Web Mercator
- Research best practices of other organizations, many organizations are offering the services in both projections (Web Mercator and State Plane), some industry due diligence
- D.C. does both, but easier because of the limited size, data is stored redundantly
- One of the arguments would be to allow the applications on the web to re-project on the fly and store the REST endpoint in a manner which is useable for more advanced analysis and incorporation for use